

HAMMATEUR CHATTER

One of the World's Oldest Continuously Active Radio Amateur Club -- since 1917

January, 2000 Vol. 08 No. 01

club officers

President	529-5583
Dave DeFebo	WB9BWP
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Treasurer	796-0969
Ken Eggert	W9MOT

Board of Directors

Barbara Brewer	KB9TIV
(99-01)	771-0640
Pancho Doneis	KA9OFA
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(98-00)	358-0107
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(98-00)	321-5845

HamateurChatter Editor

Pancho Doneis	KA9OFA
	344-4694

Mailings

Barbara Brewer	KB9TIV
	771-0640

John Merkl	WB9PSE
	259-9091

From the President's Desk

Dave DeFebo - WB9BWP



Dave DeFebo

Welcome to the new year! And depending on how you count is not the new millennium (I guess 2000 sounds better than 2001, besides 2001 is when we find the monolith on the Moon). I hope you had a good holiday season.

December 19 was the club Christmas party. I would like to thank Vern Teske for making the restaurant arrangements. Matt Planning picked up the flowers, Jim Tromblay brought the PA and Ken Eggert took pictures and signed in people and made sure things were running smoothly. Attendance was a bit down this year. The price was also higher. I assume the higher price did not affect attendance

(have you gone out to eat lately?). Hopefully with the higher price and some other changes, we will not loose much money this year (by the time you are reading this the board will have had the final financial report on the party).

In the past people like Ed Willie took care of most of the party arrangements. This year besides Vern's setting up of the restaurant and menu, the board took care of the rest of the details. I would like to see 2 or 3 people take over this function. This includes finding a restaurant, selecting a menu, getting flowers, handling any prizes, taking care of music, de-

continued on page 2

Milwaukee Area Nets

DAY	TIME	MHZ	ACTIVITY
Daily	6-8 AM	14.290	Wisconsin/Florida Net (SSB)
Daily	6:30 PM	3.645	Wis. Slow Speed CW Traffic Net
MON-FRI	8:30 AM	3.965	After Breakfast Club (SSB)
MON	8:00 PM	146.445	Emergency Net
MON	9:00 PM	146.670	ARES Net (Milwaukee-Waukesha)
MON	9:00 PM	50.160	6 Mtr. General Net
TUE	9:00 AM	50.160	6 Mtr. 2nd shifter's Net
TUE	8:00 PM	144.250	Badger Contesters (SSB)
TUE	8:00 PM	7.035	A.F.A.R. Net (CW)
WED	8:00 PM	28.365	10-10 International (Milwaukee Ch.) (SSB)

DAY	TIME	MHZ	ACTIVITY
THU	9:00 PM	50.160	6 Mtr. General Interest Net
THU	9:00 PM	146.910	Computer Net
FRI	8:45 PM	28.490	MRAC W9RH 10 meter Station Net (SSB)
FRI	9:15 PM	147.045 ±	W9RH 2 mtr.FM net after the 10 mtr. net
SAT	9:00 PM	146.910	Saturday Nite Fun net
SUN	8:30 AM	3.985	QCWA (Chptr. 55) (SSB)
SUN	10:00 AM	443.800 +	FM-38 Link to 146.88 Baraboo SWAP Net
SUN	8:00 PM	28.365	10-10 International (Milwaukee Ch.) (SSB)
SUN	8:00 PM	146.910	Information Net
SUN	9:00 PM	146.910	Swap Net

The 2 meter FM frequencies are -600 khz offset FM repeaters. FM38 is +5 Mhz offset, tone 114.8. The 10 meter SSB frequencies are upper sideband (USB). If there are additions, changes, or corrections to this list, please contact: Pancho - KA9OFA att 344-4694 or call::

1-(262)-797-MRAC or (797-6722).

MRAC Membership dues are \$15.⁰⁰ per year and run on a calendar year starting with January 1.

MRAC Board Meeting 11/99

MRAC Board Meeting Nov. '99

The meeting was called to order at 7:30.

The first order of business was to greet our guest Ted - WA9RDI. Ted has found a possible repeater site for the board to look at. It is an old commercial tower once used by possibly the Gas Co. It is not presently being used and is approximately 100' tall. The location is near 84th and Lisbon. The members of the board have all the information and will check the site out when the weather improves.

Thank you Ted for your efforts.

Treasurers report. Liquid assets \$1938 plus \$5,000 in CD. Total \$7451.

Ken W9MOT says that we have 24 reservations to date for the Christmas party. And he has no word on the delivery date for the club patches. The small patches are unreadable so the club will only order the 4" patch and no 3" patches. Those who ordered a 3" patch will have to pay the additional cost of the larger patch or we will give them their money back.

Dave - WB9BWP says that the head count for Christmas dinner must be made at least 2 weeks be-

fore the party. Matt KB9PRC will purchase the plants that will be given away at the party.

Basic details of the new years budget were discussed. It shows that we have to make some cuts or come up with some new ways to make money. The club has been deficit spending for many years and relying on the interest from our CD's to break even. But, with past donations to the ARRL and repeater purchases just to mention a few things, we have depleted our CD's in half and the interest no longer covers the extra expenses. Yearly dues just covers the Chatter and Field Day and other basic operating expenses. The board will work out a new budget and post it in an up coming Chatter.

Absent from the meeting was Jerry - KC9EV. We have now learned that he passed away from Cancer.

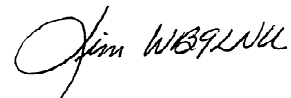
Matt - KB9PRC suggested that we should have an auction night three times a year instead of at every meeting. It was also suggested that on the more expensive donations that a minimum starting price of 40% of it's original value be used as a base price

to start the bidding.

Finally, the board had a short discussion about the club's repeater. Should we continue to have a repeater? Should we sell it? A site could cost \$500 to \$600 per year. Does any member besides WB9LNU want to take care of all the technical problems that may be encountered? We need full time repeater controllers if we want to follow the FCC rules to the letter. More next year.

Thanks to Barbara - KB9TIV for the use of her QTH for the board meeting.

Respectfully submitted,



Jim WB9LNU , Secretary



Jim - WB9LNU

Special Bulletin

Ham Licence Restructuring

The FCC has completed their restructuring talks and has made a final decision. Effective April 15, 2000 there will be three license classes - Technician, General, and Extra - and one code speed requirement for General and Extra of 5 WPM. Current Novice and Advanced operators will retain their current privileges and will be able to renew their licenses indefinitely. In addition the FCC also reduced

the number of written exam elements from 5 to 3. Tech has 35 questions. General has 35 questions and Extra has 50 questions. 5WPM will be the only code requirement.

A copy of the entire report and order (FCC 99-412) is available at --- <http://www.arrl.org/announce/regulatory/wt98-143ro.pdf>

Jim WB9LNU

Wanted

WANTED: New or used Nixie Tubes. Dead or alive. I am doing some home decoration and would like to accumulate a variety of different Nixie tube sizes, types and displays (numeric, pointer-dots, alpha characters, or ??).

Will also adopt complete or incomplete equipment which uses Nixies- Hey, this is a GREAT opportunity to unload some real heavy metal you've been wondering how to dispose of!!

Let's talk! Matt Planning, KB9PRC. 414 475 6404

MRAC Club Meeting 10/28/99

MRAC Club Meeting 11/18/99

The meeting was one week early due to Thanksgiving. (The meeting was called to order at 7:30.

Previous meeting minutes were read and approved as written.

Treasurer's report - Ken W9MOT - Total \$ 7451.00. Ken also thanked everyone who has paid their dues early this year."

The mic was passed for all to I.D.

Dave - WB9BWP asked the members if they have any general comments on band conditions or the club. Short comments followed.

Dave says the Christmas party is all set and reminded everyone who has not sent in their reservation yet that we need a total head count two weeks before the party.

Also the priority discussions at the board in January will be on the club's budget. We also will look further into the suggested repeater site that was discovered by Ted - WA9RDI. More details on the possible repeater site at the February or March meeting.

Note: The VE test charge for next year will be \$6.65.

Also Jim Fisher has requested that he needs someone to climb his 30' tower to put up a new antenna.

AES -- Will have a Super Fest in the beginning of April.

Our President, Dave - WB9BWP informed the members of the board's findings on the club budget.

Dave has worked out an expense sheet and an incoming funds sheet. Deficit spending is well indicated and changes will need to be made for the new year. Dave fielded comments from various members on the subject.

Dave would like to make the January meeting into an audience participation night. Discuss what they have been doing on the air and how much operating are they doing.

Dave also showed the members the proof patches. The small one is unreadable and will not be ordered. Everyone who ordered a small patch will have to pay an additional charge for the larger patch or have their money refunded.

A group discussion on ways to get new members. What should we do if the FCC changes the license

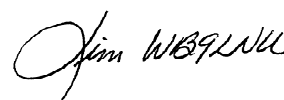
structure. Should we have a school to help the members meet the new requirements. A code class? Where could we have this class? The church is not open to having a class if the people are not members of MRAC.

John - KF9XL our testing VEC says that Nov. 27th is the last testing for this year. Also January 8th, there will be testing at the West Allis Swap Fest and at AES at the last Saturday of the month.

Dave auctioned off more donated equipment to raise money for the club. Next year we will establish a minimum starting price on the more expensive stuff and all new equipment donated. The starting price will be about 40% of the original value. Remember the auction and the money is to help the club treasury.

Dave closed the meeting with the best wishes to all through out the holiday season.

Respectfully submitted,
Jim WB9LNU



Secretary

HAMATEURCHATTER

Club mentioned in Dec. '99 QST

MRAC was mentioned in the December, 1999 issue of QST magazine. There is an article about the history of field day which begins on page 28. On page 29, there is a table of claimed scores from 1946 field day which includes the Milwaukee Radio Amateurs' Club W9SYT/9 with 2538 points using 3 transmitters. Pretty impressive!

John (KF9XL)

New Patches

Due to the detail involved in the new embroidered patches, we found that the small size was not legible. Therefore, only the larger patch is available. They are available from Ken Eggert - W9MOT for \$5.⁰⁰.

Identify yourself as a member. Buy a patch! Put it on a jacket or cap.

HAMATEURCHATTER

The First Internet

By Fred Linn - W9NZF

In the period from before the Civil War through WW I, an early version of today's "nation-wide web" was built, operating throughout the United States and nearby countries-later, around the world, if undersea cable is included. This was an electrical means of instantaneous communication known as the TELEGRAPH.

The system operated using a series of electrical impulses, hand generated by a switch, or key as it was called, producing a series of clicks at the "other end" on an instrument known as a "sounder". The system was known as Dots & Dashes, and when sent in the proper order formed words and sentences.

The invention of the telegraph gave the world its first method of instantaneous communication over great distances. However, telegraph stopped "at the water line", and was not applicable to intercontinental communication; nor was it available to ships at sea.

President Lincoln virtually ran the Civil War with the telegraph, and established an operating office directly in the White House. The problem of war-time use of the telegraph was its insecurity, as the wires were subject to "tapping", and anyone with

the right equipment could read the contents of a communication without being detected. Later, undersea cables were in common intercontinental use. This solved a large problem, but not for the naval forces at sea.

Speed of communication was adequate for normal messages, and for train control on the railroads, but was too slow to handle commercial 24 hrs/day traffic. Organizations such as Western Union and Postal telegraph maintained commercial message handling nets, and improved their service (speed and accuracy) by means of the "Teletype" machine-a typewriter built to create electrical impulses over existing wire circuits, using a system known as the "teletype code". High speed CW traffic nets existed commercially, sent by use of a punched tape at speeds exceeding 100 wpm. Prior to WW I, radio circuits were developed, again using the dot/dash system of the Morse code, different however, from that of the telegraphic "language". This partially solved the Navy communication problem "beyond the shore line", and ultimately rivalled the undersea cable service.

Meanwhile, the radio amateur fraternity picked up the

improvements made during WW I, and started to establish its own circuits. Thus was born the first Internet! This enabled the average citizen to communicate freely, without the cost of telegraph or telephone service. In the beginning, however, he had to build his own equipment and obtain a government license to comply with international regulations. The one "hitch" in this scheme was the necessity of learning the Morse Code (different from land-line telegraph). He could now communicate with fellow amateurs (hams), and chat exactly as in today's Internet exchanges. This system exists today, although most operators now use voice activated equipment-still, however, an "Inter net" operation. (Radio equipment costs are somewhat less than an advanced computer).

Again, the old adage, "There's nothing new in this world", seems to have come true.

Fred

... ..



The Victorian Internet

Book Report by John Merkl - WB9PSE

The Victorian Internet by Tom Standage

While Christmas shopping I came across this interesting book that tells the story of the telegraph and the nineteenth century's on-line pioneers. Barnes & Noble; paper back, \$12.00. A little description from the jacket of the book.

For centuries people communicated across distances only as quickly as the fastest ship or horse could travel. Generations of innovators tried and failed to develop speedier messaging devices. But in the 1800's, a few extraordinary pioneers at last succeeded. Their in-

vention- the electric telegraph- shrank the world more quickly than ever before.

The Victorian Internet tells the story of the telegraph's creation and remarkable impact and of the visionaries oddballs and eccentrics who pioneered it. By 1865 telegraph cables spanned continents and oceans, revolutionizing the ways countries dealt with one another. The telegraph gave rise to creative business practices and new forms of crime. Romances blossomed over the wires. Secret codes were devised by some users, and cracked by others. The benefits of the network were relentlessly hyped by its advocates and

dismissed by its skeptics. And attitudes toward everything from news gathering to war had to be completely rethought. The telegraph unleashed the greatest revolution in communications since the development of the printing press. Its saga offers many parallels to that of the Internet in our own time.

John - WB9PSE



John - WB9PSE

HAMATEUR CHATTER

MRAC

Christmas Party

MRAC Christmas Party We all had a very nice time. There were approximately 47 of us. Dinner was very good and enough for several helpings. To follow tradition, the plants on each table were given to the winners that had a special tag on the bottom of their plate. Dave, our President gave the state of the club speech and thanked all the active people who have helped this past year. Again the list of silent keys was quite large. Ken Eggert took pictures! Matt, our First V.P., congratulated Dave for the exceptional job he has done for all of us this passed year. All in all, a very nice evening.

Jim WB9LNU

We'll try to get some of the pictures that Ken took into a future 'Chatter.

Special Thanks

MRAC Logo Emblem Patch:

This is a thanks to all involved in designing the Club (logo) patch that will be arriving in the weeks ahead. I will try to be accurate and not miss anyone. W9PWG/Ed Wille is first on the list (he started the project in 1998. Several people were later assigned to follow it through and others also became involved in

the process. They are:

Dick McNew - WB9PTC
Byron Bye - N9RTL
Matt Planning - KB9PRC
Pancho Doneis - KA9OFA
Joe Sturmberg - KA9DFZ
Dave DeFebo - WB9BWP
Jim Tromblay - WB9LNU

A special thanks to Mark Bye - KB9LDX and Jackie Bye - KB9LDW, who used their computer and spent extra time working on project with great effort. This patch that you will soon see looks simple and clean, however it was quite a job to eliminate all the possibilities and end up with what is really needed. And thanks to all the membership for the input you gave at the meetings when presentations were made during this project.

73,

AL DROBAC

Al Drobac - AA9XH

Our (MRAC) Logo/Patch

HAMATEUR CHATTER

Morse Code Not Invented by Samuel F.X.B. Morse

VEC NEWS!

"Morse Code" is a misnomer, as pointed out by Alfred S. Vail who has written a brief account of the early systems of wire telegraphy and their authors/developers.

The original "Morse Code" was contained in a list of 50,000 printed words arranged into a code book. Messages were sent using a group of digits, denoting the "page and line" location of the desired words. The listing devised by Morse, was very similar to code books used during the first World War-(DFCI) - (Division Field Code No 1).

Morse was not much of a mechanic, and some of the early telegraph equipment was pretty bizarre-made of wood and wire-the metal instruments used in the first successful telegraphic systems were built to designs created by Alfred Vail. The Morse Code, as we know it today, was the result of Vail's analysis of the different spacing's of the printers' type. These were recognizable as "longs" & "shorts", hence dashes and dots. Alfred consulted with printers as to the most frequently used letters, and made them the shortest to type.

At this point, he decided to go into the ministry, and enrolled in the City College of New York. In his senior year, he was introduced to Samuel Morse by one of his professors. There, he witnessed one of Morse's demonstrations, and subsequently consulted with his father, Stephen, who later financed the development of the telegraph.

Stephen was highly thought of in his community, also holding some patents for railroad service

equipment. A first cousin of Alfred (Theodore), was the Chief Telegrapher of the Union Pacific, and after becoming involved in the problems of mail scheduling, devising sorting charts to enable "between-station-sorting", thus speeding up mail distribution bagged, direct from the mail car. He was eventually hired as an assistant to the Postmaster General, but later left, to return to telegraphy, and devoted his time to signing up individual companies, extending their lines under Western Union supervision.

Later, when Bell Telephone came along, he realized that the "3 wire" telegraph system could be rearranged to also carry phone messages-(Phantom circuitry). This eventually resulted in the formation of AT&T.

His biography was published as "One Man's Life", by Albert Bigelow Paine - very interesting! (It should be noted here that the WWI School of the Signal Corps was named "Camp Alfred Vail") - this facility was also engaged in pilot training, as the embryo Air Force was under the supervision of the Signal Corps (when I was there in 1938, the older hangars were used as school buildings).

Prior to WWII it was elevated to an enlarged Headquarters and Signal Corps School, and was re-named as Ft. Monmouth in N.J.



Fred Linn - W9NZE, 7/28/99

VE testing was held on November 27, 1999 at AES. There were 2 candidates, and both were successful in obtaining their first licenses. Five elements were given, and four were passed. Thank you to the following VE's for their participation:

Kate Kedney.....

KA9MWT

John Kraak (VEC)

KF9XL

Jack Krause W9JK

Will Lorenz..... W9ZOL

Les Peterson W9YCV

Jerry Thompson .. WA9SFH

VE testing was conducted on Jan 8, 2000 in conjunction with the West Allis Radio Club Swapfest in Waukesha, WI. There were 30 candidates for examination, and 8 were successful in either upgrading or getting their first license. There were 30 elements passed, and 13 elements were failed. The hard working crew of VE's included the following:

Barbara Brewer - KB9TIV

Ken Caruso - KS4NX

Tom Fuszard - KF9PU
(VEC)

John Kraak - KF9XL
(VEC)

Dick McNew - WB9PTC

Sherm Swanson - KB9Q

Jerry Thompson - WA9SFH

Jim Tromblay - WB9LNU

Thank you to all! The next MRAC-VEC test session is scheduled on Sat Jan 29 at AES at 9:30 AM.

73,



John KF9XL

A

activities
(ham)

CLUB MEETINGS

Milwaukee Radio Amateur's Club

Last Thursday of the month 7:30 p.m.
Redemption Lutheran Church
4057 N. Mayfair Rd.
Milwaukee, WI

Ozaukee Radio Club

Second Wed. of each month
7:30 p.m.
Grafton Multipurpose Senior Center
Grafton, WI

CLUB MEETINGS continued

Menomonee Falls Amateur Club

Last Wed of the month
Doors open @ 7:00 p.m. Mtg. @ 7:30 p.m.
Bank One Bldg.
Pilgrim Rd. and Mequon Rd.
Germantown, WI

Miller Valley Radio Amateur Club

Tuesday evenings at 6:30 p.m.
at 703 N. 39th St.,
just north of (and almost under)
the Wis. Ave. viaduct.
For info contact: Art - WA9AWJ
(found daily on the 146.91 repeater).

South Milwaukee Amateur Radio Club

First Wednesday of each month
American Legion Post 434
9327 S. Sheppard Ave.
Oak Creek, WI
Auction at March & October mtgs.

West Allis Radio Amateur Club

Meets the second Tuesday of each month
at 8:00 p.m.
At St. Peter's Episcopal Church
7929 W. Lincoln Ave.
West Allis, WI

HAM CLUB ACTIVITIES

CQ Third Tuesday

11:00 a.m.
Old Country Buffet
164th and Bluemound

Y'all come(!) to the
MRAC HAM BREAKFAST
every Saturday morning at 8:00 a.m. at
Maxim's Restaurant
18025 W. Capitol Dr. (a bit west of Calhoun).
Prices are reasonable, the food good, and the
company excellent.

First Friday Fish Fry

Serb Hall at 51st and Oklahoma Ave. Call:
Warren - K9IZV on the 146.91 - offset for
reservations by noon on that FRI.

W9RH-10 & 2 METER NETs

W9RH Ten Meter Net 8:45 PM at 28.490
MHz. SSB Friday evenings at 9:15 2 meter FM
repeater at 147.045 + offset.
. We'd like to meet you there..

Code Practice with DickMcNew -
WB9PTC @ 6:00-7:00 PM and 8:00-9:00
on Mondays and Wednesdays.
The frequency is 146.425 MHz.

E

events
(upcoming)

* indicates VE testing

SEWFARS SwapFest

SUN. MAR. 12, 2000
Waukesha Co. Expo Cntr.
Waukesha, WI
T/I on 146.820- PL 127.3

MICHIGAN CROSSROADS HAMFEST *

SAT. - MAR. 18, 2000
Marshall High School
Marshall, MI
146.66 or 16.52 simp

Year 2000 Hamfest/Computer Fair SUN. - MAR. 19, 2000

Lucas Co. Recreation Center
Maumee, Ohio
T/I on 147.27+ or 442.85+

NSRCfest *

SUN. MAR. 26, 2000

Lake Co Fairgrounds
Grayslake, IL
T/I on 149.345+.600 or 146.52 simp

AES SuperFest *

FRI, SAT. - APRIL 7 & 8, 2000
AES
Milwaukee, WI

Madison SwapFest

SUN. - APR. 9, 2000

Mandt Community Center
Stoughton Junior Fairgrounds
Stoughton, WI
T/I on 147.15

Ozaukee Radio Club SwapFest *

MAY 6, 2000

Circle "B" Recreation Center
Cedarburg, WI,
T/I on 146.37/97 rptcr or 146.52 simp.

Lakeshore Hamfest *

SAT. - MAY 13, 2000
Manitowoc Co. Expo
Manitowoc, WI
T/I 146.61 MHz

Princeton HamFest and Computer Show

Sun. - Jun. 4, 2000
Bureau Co. Fairgrounds
Princeton, IL
T/I on 146.955- PL 103.5

Eau Claire HamFest *

SAT. - JUN. 10, 2000
Eau Claire Co. Exposition Ctr.
Eau Claire, WI

Six Meter Club of Chicago, Inc. 43rd Hamfest *

SUN. - JUN. 11, 2000
DuPage Co. Fairgrounds
Wheaton, IL

SMARK SwapFest '00

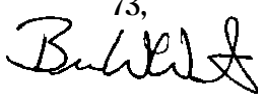
Sat. - July 8, 2000
American Legion Post 434
Oak Creek, WI
T/I on 146.52 simp

BIRTHDAYS

February Birthdays

Richard J. Scarvaci--- K9CAN Feb-07
 Gordon H. Weiler ----- W9ZQK Feb-07
 Gordon J. Fedder ----- W9YFW Feb-11
 Ted R. Stiller ----- WA9RDI Feb-11
 Michael J. Plichta ----- KB9OSB Feb-15
 Gary A. Ertel ----- WB9AON .. Feb-16

Charles C. Dawson -- W9CUW Feb-17
 Robert L. Hensiak---- N9VTN Feb-20
 John H. Kopmeier Jr- N9ZJD Feb-20
 William F. Brossmann W9EQP Feb-20
 James O. Zabel ----- W9KNZ Feb-25
 William C. Fullhart --- W9WCF Feb-27

73,

 Brian - KB9LCQ

!! Happy Birthday !!

Credits

Thanks to our news contributors this month:

KB9BWP	W9NZF	WB9PSE
K9IZV		KF9XL
KB9LCQ		AA9XH
WB9LNU		KF9XL

We would also like to thank Alfred Huwald, and Myron Hendricks for taking care of the refreshments at our meetings.

Thanks to Rita Doneis, Kristi Potochnik and Armin Doneis, III for their help in the proofreading dept.

Our thanks go to John Merkl and Barbara Brewer for making sure that the 'Chatter gets printed, stamped, and mailed.

Also our thanks goes to Tom Scherlowsky and Jacquie Horwitz for handling the Raffle at the meetings.

Thank you very much!


Editor's Notes

Hi, again,

- Officers and 3 Directors to be Elected in a few months.
- Please contact Ken Eggert to update your dues for this year.
- Ken has the new embroidered logo patches, now! We need your orders. Please contact Ken Eggert - W9MOT
- Join us in our Friday night (10 and 2 meter) nets. (No experience is needed -- only a Ham license.
- Some of us are still meeting for breakfast at Maxim's at about 182nd St. and Capitol Dr. for breakfast on Saturday morning at about 8:00 AM. We'd like to see you there.

Hope to see you at the meeting on Thurs. - Jan. 27, 2000.

73,


 Pancho - KA9OFA
 Editor



MRAC

This Month's meeting:

Thu. - January 27, 2000 (Y2K)

7:30 PM

Program: Getting (Re)Acquainted

Location: Redemption Lutheran Church

Fellowship Hall

4057 N. Mayfair Rd.

(Use the south entrance)

HANDICAPPED ACCESSIBLE

Please! Don't call the Church
for information!!!

Board meeting: Mon. -January 24, 2000

Next meeting: February 24, 2000

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HamateurChatter

Deadline is

February 1, 2000

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Our New Phone number

(262) 797-MRAC

(797-6722)

New Area Code (262)

starting in September



Milwaukee, WI 53225

P.O. Box 25707

Milwaukee Radio Amateurs' Club

M.R.A.C.

Phone (262) 797-MRAC -- Use our Club Repeater - W9RH 147.045+ offset

One of the World's Oldest Continuously Active Amateur Clubs - since 1917

HAMATEUR CHATTER

January, 2000 Vol. 08 No. 01

FROM SPARK TO SPACE